Schottky Barrier Diode



SBS004M

15V, 1A Rectifier

Applications

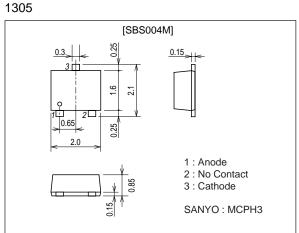
• High frequency rectification (switching regulators, converters, choppers).

Features

- Low forward voltage (IF=0.5A, VF max=0.35V) (IF=1.0A, VF max=0.4V).
- Ultrasmall-sized package permitting applied sets to be made small and slim (mounting height 0.85mm).

Package Dimensions

unit : mm



Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		15	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		15	V
Average Output Current	IO		1	А
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	10	А
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

Electrical Characteristics at Ta=25°C

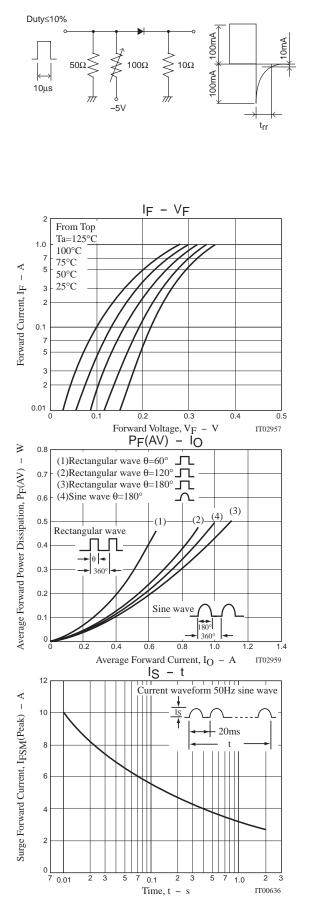
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	VR	IR=1mA	15			V
Forward Voltage	VF1	IF=0.5A		0.30	0.35	V
	V _F 2	IF=1A		0.35	0.40	V
Reverse Current	IR	VR=6V			500	μA
Interterminal Capacitance	С	V _R =10V, f=1MHz		42		pF
Reverse Recovery Time	t _{rr}	IF=IR=100mA, See specified Test Circuit.			15	ns
Thermal Resistance	Rth(j-a)	Mounted on a ceramic board (600mm ² X0.8mm)		138		°C / W

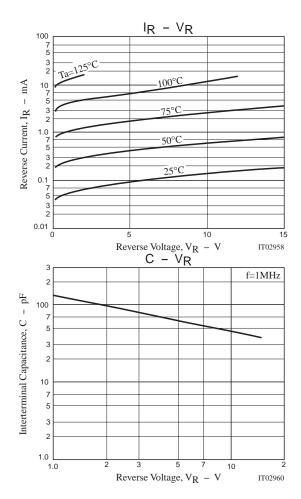
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